

ABSTRACT

A method for determining the reclose time of a circuit breaker on a three-phase high-voltage electric network after separation of contacts 7A, 8A, 7B, 8B, 7C, 8C in the presence of a fault on one of the three phases A, B or C includes measuring voltages  $U_{LA0}$ ,  $U_{LB0}$  and  $U_{LC0}$ , measuring voltage  $U_{SA0}$ , determining the voltage  $U_{SA0}$ ,  $U_{SB0}$ , and  $U_{SC0}$ , calculating the differences  $U_{LAB}$ ,  $U_{LAC}$  and  $U_{LBC}$ , calculating the differences  $U_{SAB}$ ,  $U_{SAC}$ , and  $U_{SBC}$ . From these measurements and calculations, a determination of the reclose time is made on the basis of the voltage differences.